

ACT 327: EXTERIOR FINISH

New Course Proposal

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Originator

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Justification / Rationale

Construction is one of the top employment opportunities in the Coachella Valley and with the new Title 24 requirements for Zero Net Energy construction, there is a need for a more educated construction workforce. This course is one of three modules of a non-credit overlay version of CM 020 Introduction to Construction Technology. Module 1 covers tools, equipment, safety and green concepts; Module 2 provides training and review of the basic math skills required for construction; Module 3 provides an awareness of career opportunities in the construction industry and the employability skills required to succeed in those careers. Providing this non-credit version allows those currently unemployed or underemployed to gain the skills and knowledge required to obtain and succeed in construction jobs; providing the modules as a credit overlay allows students to qualify for credit by exam and move into a credit pathway to continue education.

Effective Term

Fall 2020

Credit Status

Noncredit

Subject

ACT - Applied Construction Technolog

Course Number

327

Full Course Title

Exterior Finish

Short Title

EXTERIOR FINISH

Discipline

Disciplines List

Construction Technology

Modality

Face-to-Face

Catalog Description

This course covers the wide variety of siding materials used to finish the exterior of houses and some commercial buildings. Proper handling and installation for various materials such as wood, brick, vinyl, metal and stucco are demonstrated by industry professionals as well as by the students in a practical lab or actual project site.

Schedule Description

This course covers the wide variety of siding materials used to finish the exterior of houses and some commercial buildings. Prerequisite: ACT 320 or concurrent enrollment

Non-credit Hours

54

In-class Hours

36

Out-of-class Hours

18

Total Semester Hours

54

Override Description

Noncredit override.

Prerequisite Course(s)

Prerequisite or Co-requisite: ACT 320 Safety

Required Text and Other Instructional Materials**Resource Type**

Book

Author

National Center for Construction Education and Research

Title

Carpentry Framing and Finishing, Level Two Trainee Guide

Edition

5th

City

Gainesville, FL

Publisher

Pearson Prentice Hall

Year

2015

College Level

Yes

Flesch-Kincaid Level

12

ISBN #

978-0-13-340430-2

Class Size Maximum

20

Entrance Skills

Know common safety hazards on construction sites and how to avoid them.

Requisite Course Objectives

ACT 320-Discuss common safety hazards on construction sites.

ACT 320-Explain the purpose of Occupational Safety and Health Administration (OSHA) and their regulations for the construction industry.

Entrance Skills

Demonstrate the ability to interpret information and instructions presented in both written and verbal form.

Requisite Course Objectives

ACT 320-Demonstrate the ability to interpret information and instructions presented in both written and verbal form.

Entrance Skills

Demonstrate critical thinking skills and the ability to solve problems using those skills.

Requisite Course Objectives

ACT 320-Demonstrate critical thinking skills and the ability to solve problems using those skills.

Course Content

1. Overview of industry
2. Safety in the job area
3. Insulation and flashing
4. Cornices
5. Wood siding
6. Fiber-cement siding
7. Vinyl and metal siding
8. Stucco finishes
9. Brick and stone veneer
10. Direct-applied exterior finish systems (DEFS)
11. Exterior insulation and finish systems (EIFS)

Course Objectives

	Objectives
Objective 1	Describe the purpose of wall insulation and flashing.
Objective 2	Explain the proper procedure for the installation of selected common cornices.
Objective 3	Describe the proper procedure for the installation of lap and panel siding.
Objective 4	Describe the types and applications of common wood siding.
Objective 5	Describe fiber-cement siding and its uses.
Objective 6	Describe the types and styles of vinyl and metal siding.
Objective 7	Describe the types and applications of stucco finishes.
Objective 8	Describe the types and applications of masonry veneer finishes.
Objective 9	Describe the types and applications of special exterior finish systems.

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Outline the procedure for the application of various types of exterior finishes.
Outcome 2	Demonstrate the use of manual and power tools used in exterior finishing.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Demonstration, Repetition/Practice	Participate in lab activities to install exterior finishes.
Participation	Individual and group participation in evaluation of exterior finish options.
Lecture	Presentation of topic in context.
Discussion	In class and online evaluation of exterior finish materials and methods.
Other (Specify)	Evaluate exterior finishes at job sites.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Determination of appropriate material, methods and safety procedures for selecting and installing exterior finishes.	Out of Class Only
Other	Quizzes, In-class exercises, Participation during office and site visits	In and Out of Class
Student participation/contribution	Individual and group participation in evaluation of written homework proposals.	In and Out of Class
Presentations/student demonstration observations	Presentation of exterior finish proposals for class evaluation.	In and Out of Class
Other	Out-of-class hours will be accounted for electronically through the learning management system.	Out of Class Only

Assignments
Other In-class Assignments

1. Individual projects to develop exterior finish proposals and estimates.
2. Small group projects to evaluate proposals.
3. Individual projects to develop safe and effective procedures for installing exterior finishes.

Other Out-of-class Assignments

1. Review questions
2. Prepare materials for recommendations and estimates
3. Short response papers to evaluate estimate and methods.
4. Vocabulary terms
5. Quiz worksheets to demonstrate knowledge of textbook reading assignments.

Grade Methods

Pass/No Pass Only

MIS Course Data
CIP Code

46.0412 - Building/Construction Site Management/Manager.

TOP Code

095700 - Civil and Construction Management Technology

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Other Non-credit Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Short-Term Vocational

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Noncredit courses are repeatable until students achieve the skills and knowledge required to meet the objectives and outcomes of the course.

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

11/05/2019

Academic Senate Approval Date

11/14/2019

Board of Trustees Approval Date

12/19/2019

Chancellor's Office Approval Date

01/10/2020

Course Control Number

CCC000611525